

SD751AP3

SAW Duplexer For 751MHz / 781MHz
Revision 0: June. 2008



- Electrical Characteristics
 - Package Dimensions
 - Testing Environment
 - Frequency Characteristics
-

SAWNICS Inc.

□ Electrical Characteristics

Maximum Ratings

ITEM	UNIT	MIN.	TYP.	MAX.
Operation Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	0		
Tx Band Input Power Level within 777~ 787 MHz	dBm	30dBm > 50000 Hours, CW tone(Ta= +50°C)		
Ant. Tx. Rx Terminating Impedance	Ω	50 Ω		
Package type		P3		
Length x Width	mm ²	3.8 x 3.8		
Height	mm	-	-	1.45

Electrical Specification

Tx_781MHz		SPECIFICATIONS			
ITEM	CONDITION [MHz]	Unit	Min.	Typ.	Max.
Insertion Loss	777~ 787	dB	-	2.2	2.5
Ripple	777~ 787	dB _{p-p}	-	1.0	1.5
VSWR	777~ 787	-	-	1.7	2.2
Absolute Attenuation	1 ~ 746	dB	37	42	-
	746 ~ 756	dB	45	48	-
	758 ~ 768	dB	15	28	-
	869 ~ 894	dB	40	48	-
	1574.42 ~ 1576.42	dB	40	51	-
	2328 ~ 2361	dB	30	41	-
	3104 ~ 3148	dB	30	41	-



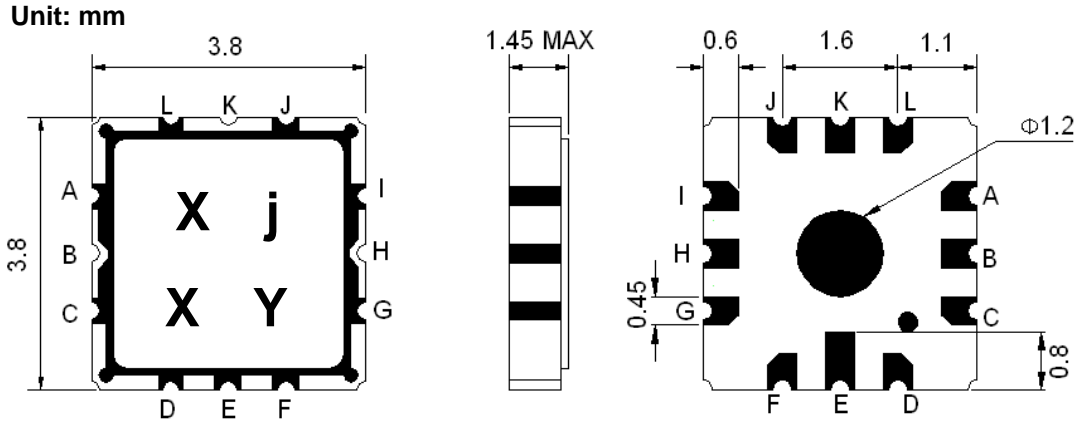
SD751AP3

SAW Duplexer for 751MHz / 781MHz

Rx_751MHz		SPECIFICATIONS			
ITEM	CONDITION [MHz]	Unit	Min.	Typ.	Max.
Insertion Loss	746 ~ 756	dB	-	1.9	2.5
Ripple	746 ~ 756	dB _{p-p}	-	0.8	1.5
VSWR	746 ~ 756	-	-	1.5	2.2
Absolute Attenuation	1 ~ 716	dB	35	41	-
	716 ~ 728	dB	40	50	-
	777 ~ 787	dB	50	60	-
	787 ~ 849	dB	38	44	-
	1710 ~ 1755	dB	40	50	-
	1850 ~ 1920	dB	35	45	-
Rx → Tx		SPECIFICATIONS			
ITEM	CONDITION [MHz]	Unit	Min.	Typ.	Max.
Isolation	777 ~ 787	dB	55	60	-
	746 ~ 756	dB	45	48	-

*Note : Including losses due to Test PCB(0.3dB)

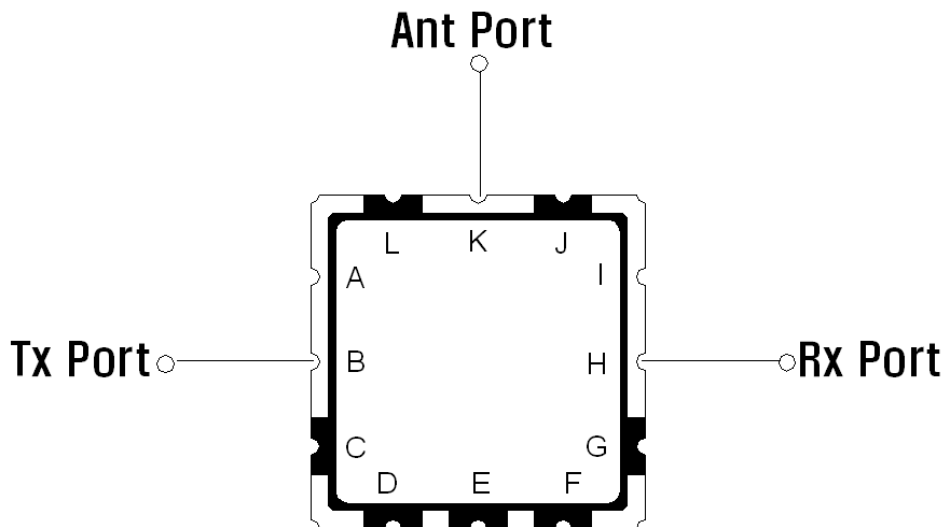
□ Package Dimensions



Marking Descriptions	
X	Model Application
j	SAW Duplexer
X	Date Code(Year)
Y	Date Code(Month)

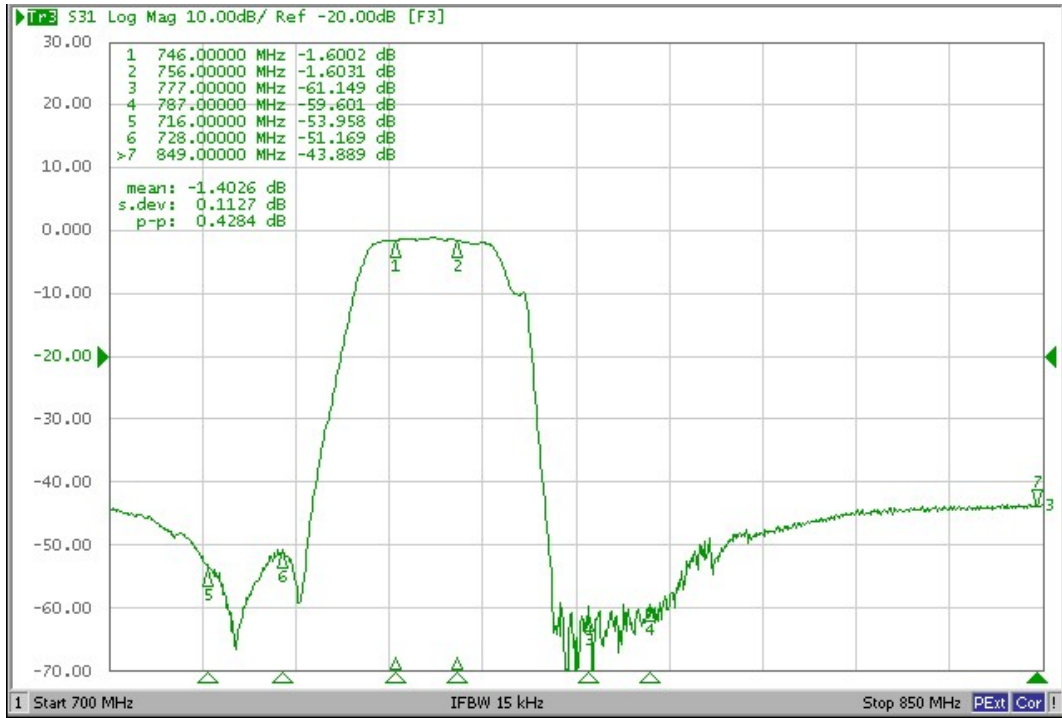
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
H	Rx Port(751.0MHz)
K	Antenna
B	Tx Port (781.0MHz)

□ Testing Environment

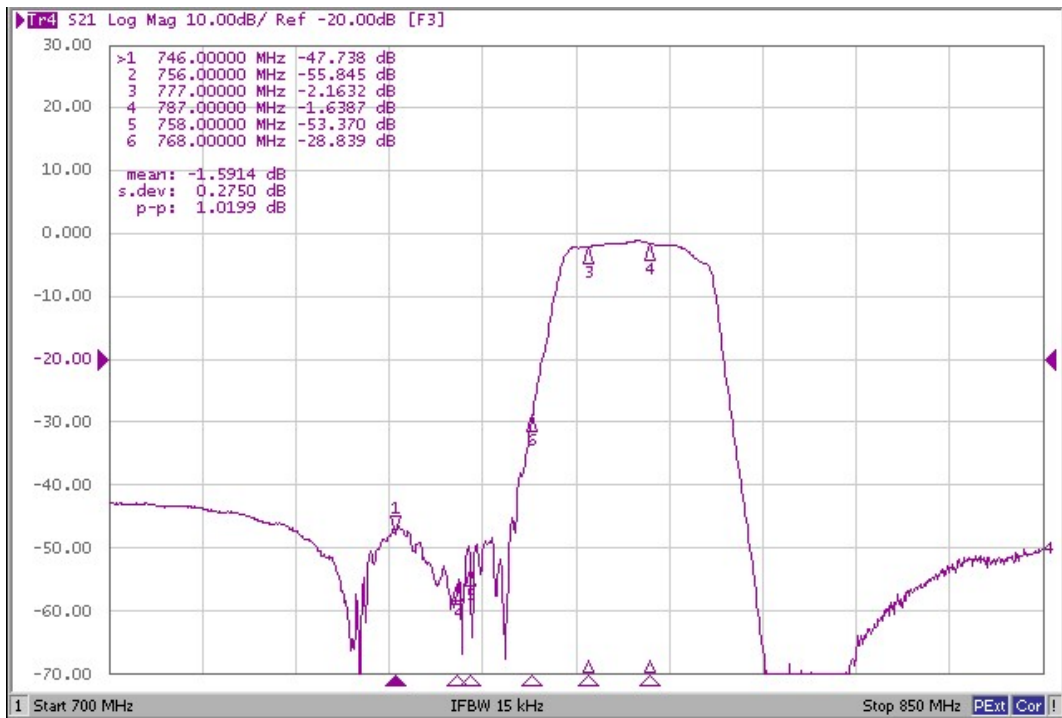


□ Frequency Characteristics

Rx Characteristic

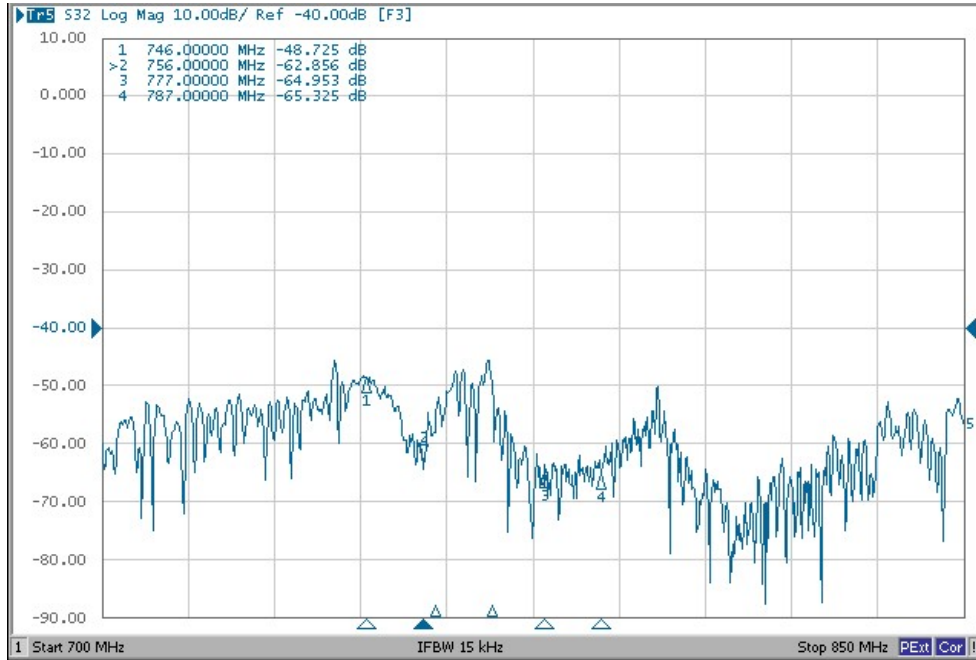


Tx Characteristic

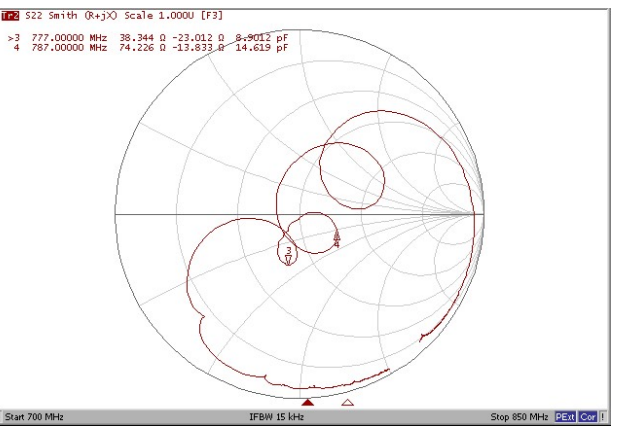
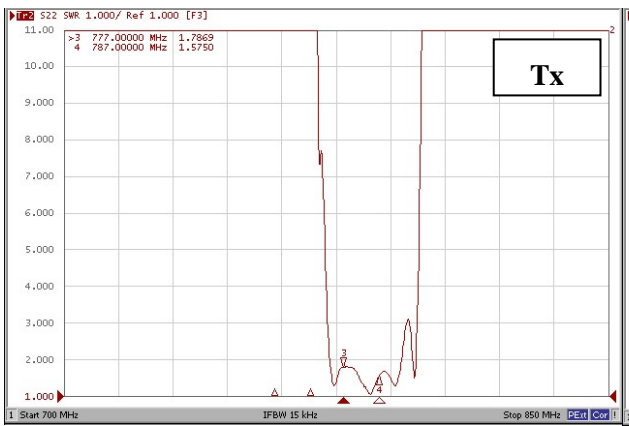
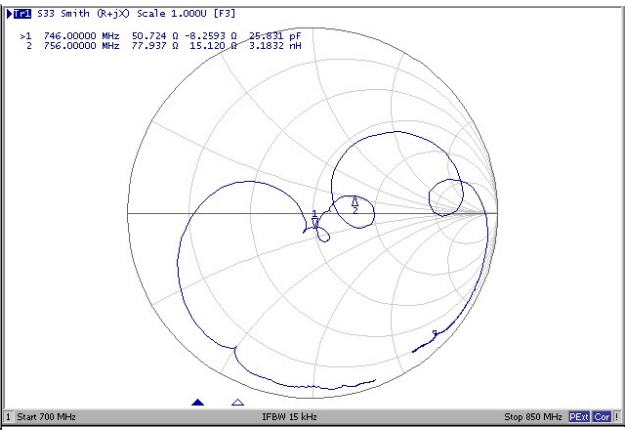
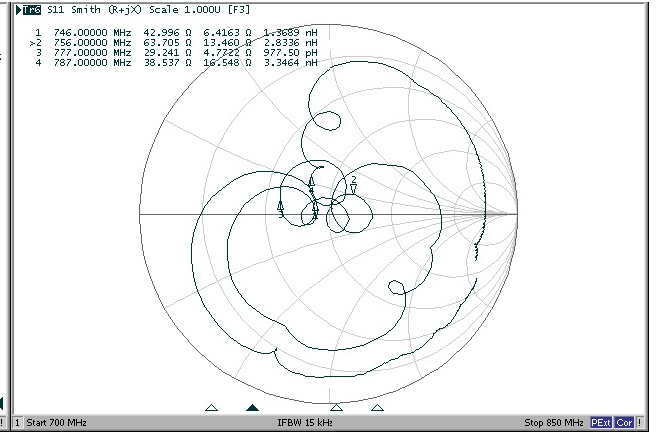
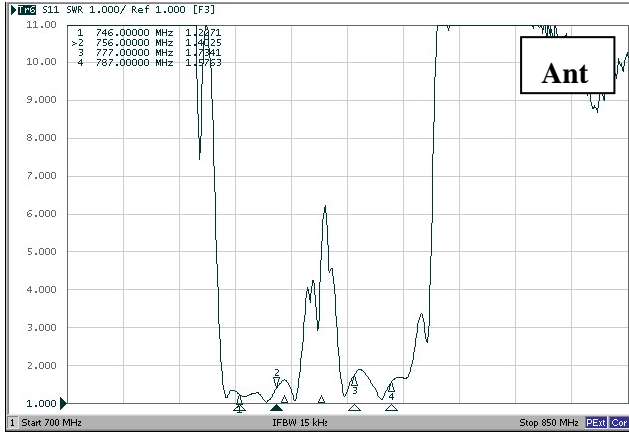




Isolation Characteristic



VSWR & SmithChart Characteristic





Wide Span Characteristic

